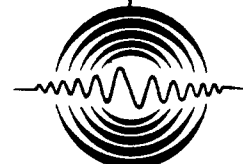


Building Acoustics & Lighting Laboratories, Inc.

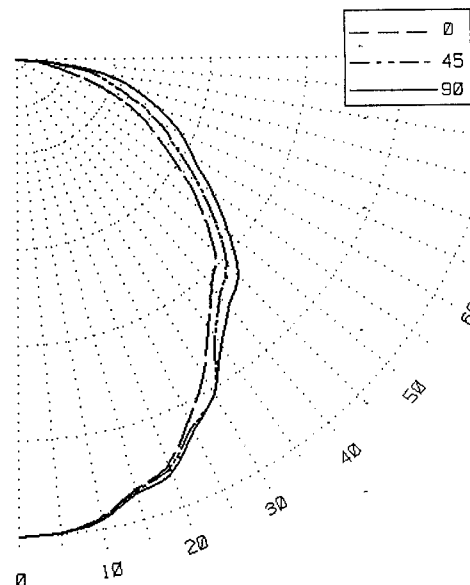
1618 HEADLAND DR.
FENTON, MO 63026
(636) - 343-6006
(636) - 343-6051 FAX



BALLABS CERTIFIED TEST REPORT NO.: 19272.2 DATE 04/01/16
PREPARED FOR: H.E. WILLIAMS, INC - CARTHAGE, MO
DESCRIPTION: 2-72LED 22"ARRAYS 2x4'RECESSED LUMINAIRE
WHITE REFLECTOR w/WHITE ACRYLIC RIBBED CENTER DIFFUSER
EVERLINE LED DRIVER #D21CC80UNVTZ-D SET @ 78
CATALOG NBR: SPR-24-L73/835-A-DIM-UNV
LAMP TYPE : M700C835D72N2A

CANDLEPOWER DISTRIBUTION					
VERT	HORIZONTAL ANGLE				
ANG	0	22.5	45	67.5	90
0	2698.	2698.	2698.	2698.	2698.
5	2684.	2682.	2684.	2684.	2685.
10	2633.	2635.	2638.	2642.	2644.
15	2516.	2519.	2526.	2538.	2543.
20	2447.	2454.	2470.	2488.	2496.
25	2258.	2267.	2301.	2313.	2323.
30	2069.	2131.	2197.	2302.	2195.
35	1862.	1879.	1921.	1963.	1981.
40	1691.	1711.	1762.	1814.	1839.
45	1565.	1589.	1655.	1719.	1748.
50	1345.	1373.	1444.	1513.	1542.
55	1123.	1153.	1228.	1303.	1333.
60	912.	948.	1028.	1103.	1136.
65	745.	788.	879.	967.	1007.
70	546.	601.	708.	807.	846.
75	349.	417.	540.	640.	680.
80	196.	286.	414.	485.	504.
85	76.	156.	200.	202.	204.
90	0.	0.	0.	0.	0.

ZONAL
LUMENS



NVLAP®

NVLAP LAB CODE 200921-0

LUMEN SUMMARY							
ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	2034.	NA.	28.1	90-120	0.	NA.	.0
0- 40	3241.	NA.	44.7	90-130	0.	NA.	.0
0- 60	5624.	NA.	77.6	90-150	0.	NA.	.0
0- 90	7244.	NA.	100.0	90-180	0.	NA.	.0
TOTAL LUMINAIRE = 0-180					7244.	NA.	100.0

IES SPACING CRITERIA: END= 1.2 DIAGONAL = 1.2 CROSS= 1.2

THIS BALLABS REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THIS CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

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LUMINANCES-CD/SQ-M HORIZONTAL ANGLE			
VERT ANGLE	0	45	90
45	3150.	3329.	3517.
55	2785.	3047.	3306.
65	2508.	2959.	3391.
75	1921.	2968.	3740.
85	1238.	3261.	3328.

MAXIMUM BRIGHTNESSES NOT MEASURED

ZONAL CAVITY COEFFICIENTS OF UTILIZATION

EFFECTIVE FLOOR CAVITY REFLECTANCE=.20

CEILING		.80				.70				.50				.30				.10				.00	
WALL	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.00					
RCR																							
0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00					
1	1.09	1.05	1.00	.97	1.07	1.02	.99	.95	.98	.95	.92	.94	.92	.89	.91	.89	.87	.85					
2	1.00	.92	.85	.80	.97	.90	.84	.79	.86	.81	.77	.83	.79	.75	.80	.77	.74	.71					
3	.92	.81	.74	.67	.89	.80	.73	.67	.77	.71	.65	.74	.69	.64	.72	.67	.63	.61					
4	.84	.72	.64	.57	.82	.71	.63	.57	.69	.62	.56	.66	.60	.55	.64	.59	.55	.53					
5	.77	.64	.55	.49	.75	.63	.55	.48	.61	.53	.48	.59	.52	.47	.57	.51	.47	.45					
6	.71	.57	.49	.42	.69	.57	.48	.42	.55	.47	.42	.53	.46	.41	.51	.46	.41	.39					
7	.65	.52	.43	.37	.63	.51	.43	.37	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34					
8	.60	.46	.38	.32	.58	.46	.38	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29					
9	.55	.42	.33	.28	.54	.41	.33	.28	.40	.33	.27	.39	.32	.27	.38	.32	.27	.25					
10	.51	.38	.30	.25	.50	.37	.30	.24	.36	.29	.24	.35	.29	.24	.34	.28	.24	.22					

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES

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LAMP TYPE : M700C835D72N2A

ELECTRICAL CHARACTERISTICS 120.0V .58055A 69.503W

LUMINOUS EFFICACY (LUMENS / WATTS) = 104.2

TESTED IN ACCORDANCE WITH CURRENT IES STANDARDS
UTILIZING ABSOLUTE PHOTOMETRY PER LM-79-08

